

2.3 Grams, Moles, & Molecules Notes (E)

Building a bow (bow & arrow) and I have 1 _____
and 1 _____.

Building a bow (bow & arrow) and I have 1.0 kg of _____
and 1.0 kg of _____.

Building a water molecule and I have 2 grams of Hydrogen
and 1 gram of Oxygen.

Building a water molecule and I have 2 Hydrogen atoms and 1
Oxygen atom.

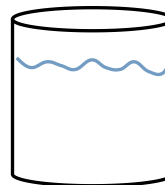
Which of these 2
ways of counting
works better? Why?

Idea #1: It is easier to _____.

How many molecules are in a cup of water?

Mass of water molecule: 2.992×10^{-23} grams.

A cup of water's mass: 236.6 grams



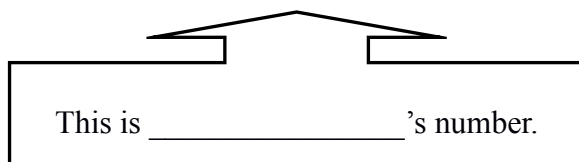
Number of water molecules in a cup = _____

Idea #2: It is easier to _____.

(We do this with doughnuts! I'd like _____ doughnuts.)

The Mole

A mole is _____ particles.



What's a "particle"?

Look on page _____ to find a comparison of moles. Why are they different sizes?

Why do we need a "mole"?

Name _____ Date _____ Period ____

Practice Converting

More practice can be found on pages _____.

Grams & Moles

Moles & Molecules

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****Remember, on a quiz you'll have to figure out which is which!****